

## VARIANCE / FIELD CHANGE NOTICE

V/F No. 5

WBS NO.: 2505-WP-0022

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PROJECT TITLE: Integrated Environmental Monitoring Plan, Rev. 2.

Date: 6-5-02

## VARIANCE / FIELD CHANGE NOTICE (Include justification):

Requirement: Sample monitoring wells 63116, 23118, 63119, 63121, 32766, 32768 and 63122 for total uranium.

4312

Variance: These wells will be sampled second quarter of 2002 for the parameters listed in Table 1.

INFORMATION  
ONLY

Justification: These wells were recently installed in the Waste Storage Area. Data collected from these wells will be useful to assess aquifer restoration progress and to aid in making operational decisions concerning extraction wells in the area.

Requested By: Karen Voisard 6-5-02

X IF REQD	VARIANCE/FCN APPROVAL	DATE	REQD	X IF	VARIANCE/FCN APPROVAL	DATE
X	QUALITY ASSURANCE <i>Michael B/ky</i>	6-6-02	X		ARMWP Hydrogeology <i>William C. Zittel</i>	6/6/02
	DATA QUALITY MANAGEMENT		X		EM IEMP <i>Cynthia J. [signature]</i>	6/10/02
	ANALYTICAL CUSTOMER SUPPORT		X		EM Water Monitoring <i>[signature]</i>	6/7/02
	OTHER				OTHER	
VARIANCE/FCN APPROVED [X] YES [ ] NO			REVISION REQUIRED: [ ] YES [x] NO			
DISTRIBUTION						
PROJECT MANAGER:		DOCUMENT CONTROL ECDC		OTHER:		
FIELD MANAGER:		OTHER:		OTHER:		

**Table 1**  
**Analytical Requirements for Variance 3**

Parameter	Holding Time	Preservative	Sample Volume/Container	Lab QC Volume/Container
VOAs (Carbon Disulfide & TCE)	14 days	H <sub>2</sub> SO <sub>4</sub> , pH < 2 Cool to 4°C	5 X 40 ml vials	5 X 40 ml vials
Metals (molybdenum and manganese) (filtered if > 5 NTUs)	28 Days	HNO <sub>3</sub> , pH < 2	1 - 1 liter plastic	2 - 1 liter plastic
Nitrate-Nitrite	28 Days	H <sub>2</sub> SO <sub>4</sub> , pH < 2 Cool to 4°C	1 - 500 ml plastic	2 - 500 ml plastic
Rads (Tc-99 and Total U) (filtered if > 5 NTUs)	6 Months	HNO <sub>3</sub> , pH < 2	2 - 1 liter plastic	1 - 4 liter plastic
Total U (Unfiltered) (collect only if < 5 NTUs)	6 months	HNO <sub>3</sub> , pH < 2	1 - 250 ml plastic	2 - 250ml plastic

Field QC shall be collected using the following frequencies:

Rinsate (Unfiltered) - 1 in 20 wells sampled (when using other than dedicated sampling equipment).

Field Blank (Unfiltered) - 1 per day.

Duplicate (Same filtering scheme as normal sample) - 1 in 20 wells.

- For Laboratory QC samples denote in the special instructions of the Chain of Custody:  
"Sample designated for laboratory QC."